

CLAIM AMENDMENTS:

Please amend Claims 1-12 as follows:

1. (Currently Amended) A method for producing an ink jet recording head including a head member having a hydrophilically treated surface, comprising steps of:

a first step for forming, on a substrate, a solid layer composed of soluble resin and having a pattern for constituting a liquid flow path having a surface for being hydrophilically treated;

a second step for forming a hydrophilic film with a side thereof in contact with said surface of an inorganic film by low temperature film formation so as to cover said solid layer;

a third step for forming a layer of a head forming material so as to cover said inorganic film said head member on said hydrophilic film; and

removing a part of said inorganic film for forming a discharge port;  
and

a fourth step for removing said solid film to expose said side of said hydrophilic film thereby forming a liquid flow path communicating with the discharge port.

2. (Currently Amended) A method according to claim 1, wherein said low temperature hydrophilic film formation is executed by sputtering, CVD or vapor deposition.

3. (Currently Amended) A method according to claim 1, wherein said inorganic hydrophilic film is composed of SiN, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, Ti, Ta, Cu, Ag or ITO.

4. (Currently Amended) A method according to claim 1, wherein ~~the layer of said head-forming member is formed of a material has~~ having an ink repellent property.

5. (Currently Amended) A method according to claim 4, wherein ~~the layer of said head-forming member~~ material is composed of an ink-repellent settable resin.

6. (Currently Amended) A method according to claim 1, wherein ~~the layer of said head-forming material is composed~~ member is formed of an inorganic material.

7. (Currently Amended) A method according to claim 1, wherein said head is of an edge shooter type in which ~~said~~ an ink discharge port is provided on an end face of ~~said a head~~ substrate.

8. (Currently Amended) A method according to claim 1, wherein said ~~inorganic film removing fourth~~ step is executed by after cutting through ~~said inorganic film together with said substrate head member, said film, and said layer.~~

9. (Currently Amended) A method according to claim 1, wherein said head is of a side shooter type in which ~~said~~ an ink discharge port is provided ~~toward~~ above ~~said a head~~ substrate.

10. (Currently Amended) A method according to claim 1, wherein ~~the layer of said head-forming~~ said head member comprises material ~~is composed of resin and said inorganic film removing fourth~~ step is executed by dry etching.

11. (Currently Amended) A method according to claim 9, wherein said solid layer is provided with a discharge port pattern on ~~the~~ a liquid flow path pattern.

12. (Currently Amended) An ink jet recording head which comprises ~~being a head produced by an ink jet recording head producing a~~ method according to any of claims 1 to 11.